

MeSH Now: automatic MeSH indexing at PubMed scale via learning to rank¹²³.

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Abstract—Background: MeSH indexing is the task of assigning relevant MeSH terms based on a manual reading of scholarly publications by human indexers. The task is highly important for improving literature retrieval and many other scientific investigations in biomedical research. Unfortunately, given its manual nature, the process of MeSH indexing is both time-consuming (new articles are not immediately indexed until 2 or 3 months later) and costly (approximately ten dollars per article). In response, automatic indexing by computers has been previously proposed and attempted but remains challenging. In order to advance the state of the art in automatic MeSH indexing, a community-wide shared task called BioASQ was recently organized.

Index Terms—Multilayer stent, Aorticaneurysm, Blood Flow, Pressure, WSS

I. BACKGROUND

The rapid growth of scholar publications in biomedicine makes the search of relevant information in literature increasingly more difficult, even for specialists [1], [2]. To date, PubMed—the U.S. National Library of Medicine (NLM) premier bibliographic database—contains over 24 million articles from over 5,600 biomedical journals with more than a million records added each year. To facilitate searching these articles in PubMed, a controlled vocabulary called Medical Subject Headings (MeSH)¹ was created and updated annually by the NLM since 1960s. Currently, MeSH 2015 consists of over 27,000 terms representing a wide spectrum of key biomedical concepts (e.g. Humans, Parkinson Disease) in a hierarchical structure. MeSH terms are primarily used to index articles in PubMed for improving literature retrieval. The practice of manually assigning relevant MeSH terms to new publications in PubMed by the NLM human indexers is known as MeSH indexing [3]. Assigned MeSH terms can then be used implicitly (e.g., automatic query expansion using MeSH) or explicitly in PubMed searches [4]. Compared with the commonly used keyword-based PubMed searches, MeSH indexing allows for semantic searching (using the relationship between the subject headings) and searching against concepts not necessarily present in the PubMed abstract.

In addition to its use in PubMed, MeSH indexing results have also been used creatively in many other scientific investigation areas, including information retrieval, text mining, citation analysis, education, and traditional bioinformatics research (see Figure 1). When applied to information retrieval, MeSH and its indexing results have been used to build “tag clouds” for improving the visualization of search results [5], [6] and to help distinguish between publication authors with identical names [7], [8]. Another major use of MeSH indexing is in biomedical text mining, where it has been applied to problems such as document summarization [9], document clustering [10], and word sense disambiguation [11]. MeSH indexing also serves several key roles in citation analysis, from identifying emerging research trends [12], [13] to measuring similar journals [14] and characterizing research profiles for an individual researcher, institute or journal [15]. In the era of evidence-based practice, MeSH becomes increasingly important in assessing and training the literature search skills of healthcare professionals [16], [17], as well as in assisting undergraduate education in biological sciences [18]. Finally, much bioinformatics research, such as gene expression data analysis [19], [20], greatly benefits from MeSH indexing [21], [22], [23], [24], [25].

Like many manual annotation projects [26], [27], [28], [29], [30], MeSH indexing is a labour-intensive process. As shown in [3], [31], it can take an average of 2 to 3 months for an article to be manually indexed with relevant MeSH terms after it first enters PubMed. In response, many automated systems for assisting MeSH indexing have been previously proposed. In general, most existing methods are based on the following techniques: i) pattern matching, ii) text classification, iii) k-Nearest Neighbours, iv) learning-to-rank, or v) combination of multiple techniques. Pattern-matching methods [32] search for exact or approximate matches of MeSH terms in free text. Automatic MeSH indexing can also be regarded as a multi-class text classification problem where each MeSH term represents a distinct class label. Thus many multi-label text classification methods have been proposed, such as neural networks [33], Support Vector Machines (SVM) [34], [35], Inductive Logic Programming [36], naïve Bayes with optimal training set [37], Stochastic Gradient Descent [38], and meta-learning [39]. While the pattern matching and text

¹ <http://www.ncbi.nlm.nih.gov/mesh/>

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